

3RD FLOOR NOTIFICATION APPLIANCE RISER DIAGRAM FA0.1 SCALE: NONE

NOTIFICATION APPLIANCE CIRCUIT POWER REQUIREMENTS # OF APPLIANCES URRENT PER CIRCUIT CIRCUIT APPLIANCE AV1 AV2 0.064 4 3 SIEMENS ZR-SERIES WALL STROBE 15 cd 0.098 1 0 SIEMENS ZR-SERIES WALL STROBE 30 cd SIEMENS ZR-SERIES WALL STROBE 75 cd 0.175 0 0 SIEMENS ZR-SERIES WALL STROBE 110 cd 0.233 SIEMENS ZR-SERIES CEILING STROBE 75 cd 0.200 | 0 ____1__ SIEMENS ST-WC-RETRO SERIES STROBE 15 cd 0.064 1 1 1 0.098 4 5 SIEMENS ST-WC-RETRO SERIES STROBE 30 cd 0.175 1 2 SIEMENS ST-WC-RETRO SERIES STROBE 75 cd 0.233 0 0 SIEMENS ST-WC-RETRO SERIES STROBE 110 cd TOTAL CIRCUIT CURRENT 0.985 1.296

NOTES:

THE FOLLOWING NOTIFICATION APPLIANCES AND THEIR POWER DEMANDS WERE USED IN THE DESIGN:

- 1. SIEMENS ZR-SERIES WALL STROBES; 15CD (0.064 AMP), 30CD (0.098 AMP), 75CD (0.175 AMP) &
- 110CD (0.233 AMP) WALL MOUNTED STROBE; RATED 16 TO 33 AMP. 2. SIEMENS ST-WC-RETRO SERIES STROBES; 15CD (0.064 AMP), 30CD (0.098 AMP), 75CD (0.175
- AMP) & 110CD (0.233 AMP); RATED 16 TO 33 AMP.

3. SIEMENS ZR-SERIES CEILING STROBE 75CD (0.200 AMP) CEILING MOUNTED STROBE; RATED 16 TO

VOLTAGE DROP CALCULATIONS

WHERE: I = CIRCUIT POWER LOAD 21.6 = CONSTANTD = CONDUCTOR ONE WAY DISTANCE CM = CROSS SECTION AREA OF WIRE (4110 FOR AWG#14)

{0.985 AMP) (650 FT) (21.64)}/4110 VOLTAGE DROP: 3.371 VOLTS AVAILABLE VOLTAGE: 20.629 VOLTS

{(1.296 AMP) (650 FT) (21.64)}/4110 VOLTAGE DROP: 4.435 VOLTS AVAILABLE VOLTAGE: 19.565 VOLTS

THE CIRCUITS' AVAILABLE VOLTAGE IS ABOVE THE MINIMUM LISTED VOLTAGE FOR THE APPLIANCES.

NAC CIRCUITS FROM FACU (MODS 17 & 18)

APPLIANCE SYNCH MODULE DETAIL (FA0.1) SCALE: NONE

NOTES:

1. SYNC. VISUAL APPLIANCES, ONLY. NEW AND EXISTING BELLS WILL UTILIZE THE EXISTING BELL

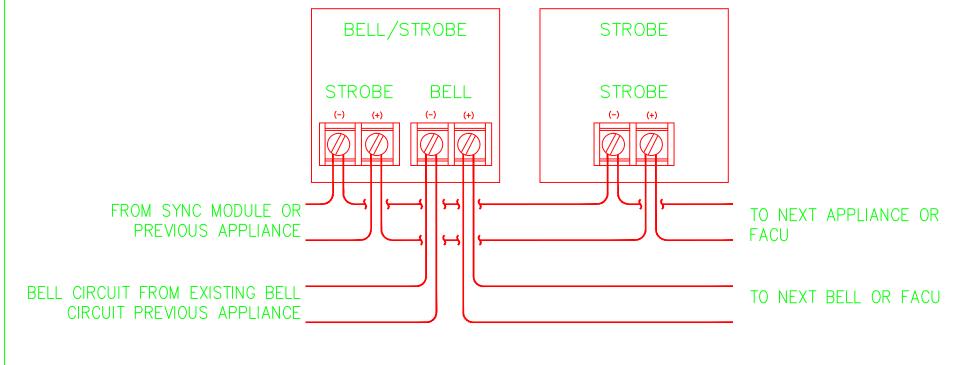
2. SYNC. MODULE(S) TO BE MOUNTED ON THE WALL

ON THE LEFT HAND SIDE AND ADJACENT TO THE

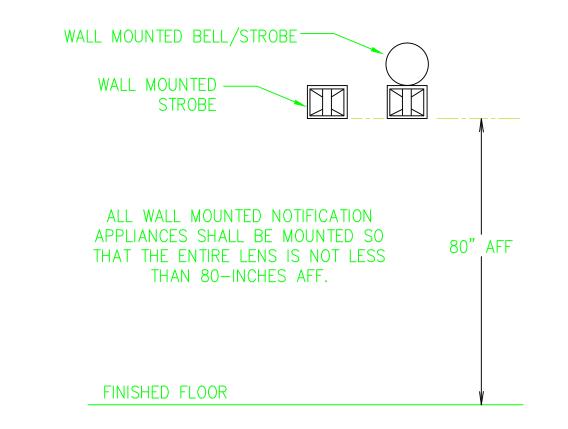
CIRCUIT(S) IN THE ADJACENT CORRIDOR.

EXISTING FACP IN BASEMENT.

PROFESSIONAL SEAL
(IF REVISION, APPLIES ONLY TO REVISED WORK)



3 TYPICAL NOTIFICATION APPLIANCE DETAIL FA0,1/ SCALE: NONE



TYPICAL APPLIANCE MOUNTING DETAIL -A0.1 SCALE: NONE

ISSUE (PROGRESS, ESTIMATE, BID, CONSTRUCTION, CONFORMED, REVISION, RECORD)

REVISION DRAWN CHECKED APPR'D BY

DATE REMARKS

RECORD TRE ALARM SYSTEM PLAN AND NOTES

GENERAL NOTES:

IN GENERAL, WORK SHALL INCLUDE, BUT NOT BE LIMITED TO:

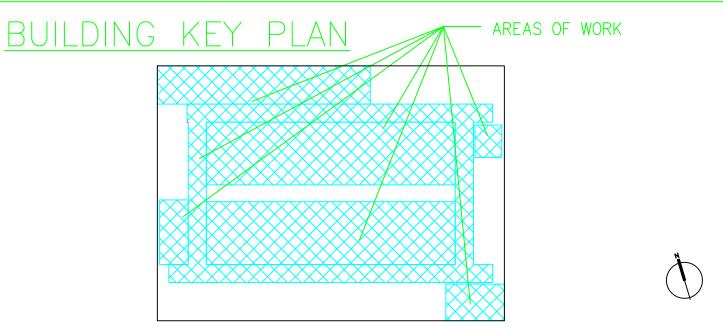
- 1) THE INSTALLATION OF NEW WALL AND CEILING MOUNTED OCCUPANT NOTIFICATION APPLIANCES AS SHOWN IN THE DRAWINGS, INSTALLATION OF NEW CONDUIT, RACEWAY SYSTEM MODIFICATIONS AND RACEWAYS FOR THE FIRE ALARM SYSTEM MODIFICATIONS.
- 2) ALL PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS NECESSARY FOR THE INSTALLATION OF THE APPLIANCES INCLUDING THE INSTALLATION OF APPROVED FIRESTOP ASSEMBLIES NECESSARY TO MAINTAIN THE DESIGNED FIRE RESISTANCE RATING OF THE WALL, CEILING, OR FLOOR ASSEMBLY.
- 3) SYSTEMS AND DEVICE TESTING.
- 4) THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND IMPLEMENTING ALL SAFETY PROGRAMS AND PROCEDURES FOR THIS PROJECT AND SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
- 5) THE CONTRACT DRAWINGS ARE DIAGRAMMATIC ONLY. SUBCONTRACTOR SHALL DETERMINE THE ACTUAL MEASUREMENTS AND MAKE ANY AND ALL SUCH LENGTH AND OFFSET ADJUSTMENTS AS MAY BE NECESSARY TO COMPLETE THE INSTALLATION AT NO CHANGE IN THE CONTRACT PRICE. THE DRAWINGS ARE NOT INTENDED TO RELIEVE THE SUBCONTRACTOR OF ANY RESPONSIBILITY FOR AVOIDING CONFLICTS OR OBSTRUCTIONS, OR FOR INSTALLING THE FIRE ALARM APPLIANCES AS REQUIRED.
- 6) ALL EQUIPMENT SHALL BE NEW, AND APPROVED AND/OR LISTED BY UNDERWRITERS' LABORATORIES OR FACTORY MUTUAL.
- 7) SYSTEM, EQUIPMENT, INSTALLATION, AND MATERIALS AND METHODS USED SHALL COMPLY WITH THE FOLLOWING:

A) THE REQUIREMENTS OF THE LAWRENCE BERKELEY NATIONAL LABORATORY

- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 72 NATIONAL FIRE ALARM CODE, CURRENT EDITION.
- CALIFORNIA BUILDING AND FIRE CODES, 2007 EDITIONS.
- MANUFACTURER'S RECOMMENDATIONS AND GUIDELINES.

LEGEND

- NEW WALL MOUNTED STROBE, CANDELA AS NOTED.
- NEW CEILING MOUNTED STROBE, CANDELA AS NOTED.
- NEW WALL MOUNTED BELL/STROBE, CANDELA AS NOTED.
- NEW WALL MOUNTED BELL.
- EXISTING WALL MOUNTED BELL.
- FATC EXISTING FIRE ALARM TERMINAL CABINET.
- --- NEW $\frac{3}{4}$ INCH FIRE ALARM CONDUIT.



CHECKED BY APPROVED BY CAD FILE PATH SCALE AS NOTE

DRAWING NO.

4B62E137